



Atty. Docket No. A32212-PCT-USA (072396.0234)

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Petersen *et al.*

TECH CENTER 1600/2900

Serial No.: 09/914,175

Examiner: Unassigned

Filed: March 1, 2002

Group Art Unit: 3738

For: BONE MARROW TRANSPLANTATION FOR HEPATIC  
REGENERATION AND REPAIR

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INFORMATION DISCLOSURE STATEMENT

I hereby certify that this paper is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231.

February 19, 2003

Date

Carmella L. Stephens

Attorney Name

41,328

PTO Reg. No

Carmella L. Stephens  
Signature

February 19, 2003

Date of Signature

Hon. Commissioner of Patents and Trademarks  
Washington, D.C. 20231

Dear Sir:

Pursuant to the provisions of 37 C.F.R. §§ 1.97 and 1.98, Applicants respectfully request that the citations listed herein be considered by the Examiner and made of record in the relating to the above-mentioned application. The citations listed below are also listed in the accompanying PTO Form 1449.

1. Petersen BE, Goff JP, Greenberger JS, Michalopoulos GK. Hepatic oval cells express the hematopoietic stem cell marker Thy-1 in the rat. *Hepatology* 1998;27:433-445.

NY02:426695.2

2. Petersen BE, Zajac VF, Michalopoulos GK. Hepatic oval cell activation in response to injury following chemically induced periportal or pericentral damage in rats. *Hepatology* 1998;27:1030-1038.
3. An J, Beauchemin N, Albanese J, Abney TO, Sullivan AK. Use of a rat cDNA probe specific for the Y chromosome to detect male-derived cells. *J Androl* 1997;18:289-293.
4. Grisham, J.W. and Thorgiersson, S.S. in *Stem Cells*, C.S. Potter, Ed. (Academic Press, San Diego, CA 1997) pp. 233-282.
5. Omori M, Omori N, Evarts RP, Teramoto T, Thorgeirsson SS. Coexpression of flt-3 ligand/flt-3 and SCF/c-kit signal transduction system in bile-duct-ligated SI and W mice. *Am J Pathol* 1997;150:1179-1187.
6. Omori N, Omori M, Evarts RP, Teramoto T, Miller MJ, Hoang TN, Thorgeirsson SS. Partial cloning of rat CD34 cDNA and expression during stem cell-dependent liver regeneration in the adult rat. *Hepatology* 1997;26:720-727.
7. An J, Rosen V, Cox K, Beauchemin N, Sullivan AK. Recombinant human bone morphogenetic protein-2 induces a hematopoietic microenvironment in the rat that supports the growth of stem cells. *Exp Hematol* 1996;24:768-775.
8. Murase N, Starzl TE, Ye Q, Tsamandas A, Thomson AW, Rao AS, Demetris AJ. Multilineage hematopoietic reconstitution of supralethally irradiated rats by syngeneic whole organ transplantation. With particular reference to the liver. *Transplantation* 1996;61:1-4.

9. Novikoff PM, Yam A, Oikawa I. Blast-like cell compartment in carcinogen-induced proliferating bile ductules. *Am J Pathol* 1996;148:1473-1492.
10. Rao MS, Reddy JK. Hepatic transdifferentiation in the pancreas. *Semin Cell Biol* 1995;6:151-156.
11. Yagihashi A, Takahashi S, Murase N, Starzl TE, Iwaki Y. A monoclonal antibody (L21-6) recognizing an invariant chain expressed on the cell surface in rats with the exception of the BN (RT1n): a study of tissue and strain distributions. *Transplant Proc* 1995;27:1519-1521.
12. Tsamandas AC, Jain AB, Raikow RB, Demetris AJ, Nalesnik MA, Randhawa PS. Extramedullary hematopoiesis in the allograft liver. *Mod Pathol* 1995;8:671-674.
13. Fujio K, Evarts RP, Hu Z, Marsden ER, Thorgeirsson SS. Expression of stem cell factor and its receptor, c-kit, during liver regeneration from putative stem cells in adult rat. *Lab Invest* 1994;70:511-516.
14. Thorgeirsson SS, Evarts RP, Bisgaard HC, Fujio K, Hu Z. Hepatic stem cell compartment: activation and lineage commitment. *Proc Soc Exp Biol Med* 1993;204:253-260.
15. Defrances MC, Wolf HK, Michalopoulos GK, Zarnegar R. The presence of hepatocyte growth factor in the developing rat. *Development* 1992;116:387-395.
16. Sakamoto T, Saizawa T, Mabuchi A, Norose Y, Shoji T, Yokomuro K. The liver as a potential hematolymphoid organ examined from modifications occurring in

the systemic and intrahepatic hematology system during liver regeneration after partial hepatectomy. *Reg Immunol* 1992;4:1-11.

17. Bartles JR, Rao MS, Zhang LQ, Fayos BE, Nehme CL, Reddy JK. Expression and compartmentalization of integral plasma membrane proteins by hepatocytes and their progenitors in the rat pancreas. *J Cell Sci* 1991;98:45-54.
18. Faris RA, Monfils BA, Dunsford HA, Hixson DC. Antigenic relationship between oval cells and a subpopulation of hepatic foci, nodules, and carcinomas induced by the "resistant hepatocyte" model system. *Cancer Res* 1991;51:1308-1317.
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20. Sakamoto T, Mabuchi A, Kuriya S, Sudo T, Aida T, Asano G, Shoji T, Yokomuro K. Production of granulocyte-macrophage colony-stimulating factor by adult murine parenchymal liver cells (hepatocytes). *Reg Immunol* 1990-91;3(5):260-267.
21. Hixson DC, Faris RA, Thompson NL. An antigenic portrait of the liver during carcinogenesis. *Pathobiology* 1990;58:65-77.
22. Barbera-Guillem E, Ayala R, Vidal-Vanaclocha F. Differential location of hemopoietic colonies within liver acini of postnatal and phenylhydrazine-treated adult mice. *Hepatology* 1989;9:29-36.

23. Evarts RP, Nagy P, Nakatsukasa H, Marsden E, Thorgeirsson SS. In vivo differentiation of rat liver oval cells into hepatocytes. *Cancer Res* 1989;49:1541-1547.
24. Blazar BR, Quinones RR, Heinitz KJ, Sevenich EA, Filipovich AH. Comparison of three techniques for the ex vivo elimination of T cells from human bone marrow. *Exp Hematol* 1985;13:123-128.
25. Yaswen P, Hayner NT, Fausto N. Isolation of oval cells by centrifugal elutriation and comparison with other cell types purified from normal and preneoplastic livers. *Cancer Res* 1984;44:324-331.
26. Naughton BA, Gamba-Vitalo C, Naughton GK, Liu P, Gordon AS. Granulopoiesis and colony stimulating factor production in regenerating liver. *Exp Hematol* 1982;10:451-458.
27. Hays EF, Firkin FC, Koga Y, Hays DM. Hemopoietic colony forming cells in regenerating mouse liver. *J Cell Physiol* 1975;86:213-219.
28. Moore MA, Metcalf D. Ontogeny of the haemopoietic system: yolk sac origin of in vivo and in vitro colony forming cells in the developing mouse embryo. *Br J Haematol* 1970;18:279-296.
29. Barker JE, Keenan MA, Raphals L. Development of the mouse hematopoietic system. II. Estimation of spleen and liver "stem" cell number. *J Cell Physiol* 1969;74:51-56.

The submission of this Information Disclosure Statement does not represent that a search has been made or that no better art exists and does not constitute an admission that

any of the listed documents are material or constitute "prior art." If the Examiner applies any of the documents as prior art against any claim in the application and Applicants determine that the cited documents do not constitute "prior art" under United States law, Applicants reserve the right to present to the Office the relevant facts and law regarding the appropriate status of such documents.

Applicants further reserve the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied against the claims of the present application.

Applicants believe no fee is due in connection with the filing of this Information Disclosure Statement. However, if any fee is due or overpayment made with regard to this communication, the Commissioner is authorized to charge any such fee, and to credit any overpayment, to our Deposit Account No. 02-4377. Two copies of this communication are enclosed.

Respectfully submitted,

Date: February 19, 2003

By

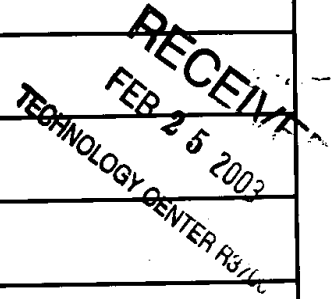
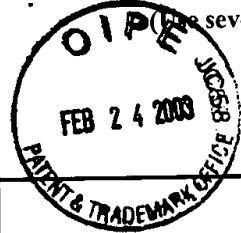
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Carmella L. Stephens  
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Attorneys for Applicant  
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Form PTO-1449 U.S. Department of Commerce (REV. 2-82) Patent and Trademark Office	Atty. Docket No. A32212-PCT-USA 072396.0234	Serial No. 09/914,175
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use several sheets if necessary)	Applicant Petersen <i>et al.</i>	
	Filing Date March 1, 2002	Group 3738
	Examiner Unassigned	



No.	OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)
4.	Grisham, J.W. and Thorgiersson, S.S. in Stem Cells, C.S. Potter, Ed. (Academic Press, San Diego, CA 1997) pp. 233-282.
5.	Omori M, Omori N, Evarts RP, Teramoto T, Thorgeirsson SS. Coexpression of flt-3 ligand/flt-3 and SCF/c-kit signal transduction system in bile-duct-ligated SI and W mice. Am J Pathol 1997;150:1179-1187.
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No.	OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)
13.	Fujio K, Evarts RP, Hu Z, Marsden ER, Thorgeirsson SS. Expression of stem cell factor and its receptor, c-kit, during liver regeneration from putative stem cells in adult rat. Lab Invest 1994;70:511-516.
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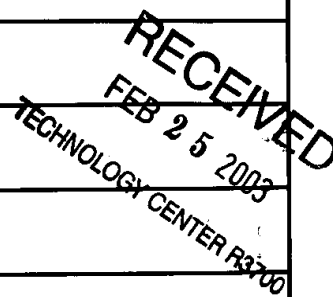
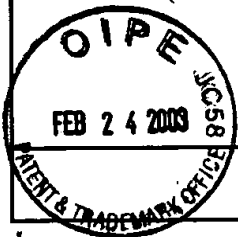
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**U.S. PATENT DOCUMENTS**

*Exam. Init.	No.	Document No.	Date	Name	Class	Subclass	Filing Date if Appro.

**FOREIGN PATENT DOCUMENTS**

No.	Document No.	Date	Country	Class	Subclass	Translation Yes No

**OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)**

No.	
1.	Petersen BE, Goff JP, Greenberger JS, Michalopoulos GK. Hepatic oval cells express the hematopoietic stem cell marker Thy-1 in the rat. Hepatology 1998;27:433-445.
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